



WATER MANAGEMENT MONTHLY REPORT

Information Exchange Bulletin

Vol. No. 01 – 12

Date: 03 January 2002

Prepared by: U.S. Army Engineer Division,
Great Lakes and Ohio River, PO Box 1159,
Cincinnati, OH 45201-1159

RESERVOIR OPERATION AND SYSTEM STATUS FOR DECEMBER 2001

HIGHLIGHTS – Cairo stage began the month at 25.2 feet and ended at 27.8 feet and was falling. The stage crested twice during the month, 39.8 feet on the 3rd and 41.5 feet on the 20th. Flood stage is 40 feet.

WEATHER –The weather during December continued the above normal temperatures of November. The first three weeks brought well above normal temperatures before dropping sharply for the last week. Precipitation was below normal for most areas south of the Ohio River with the exception of western Kentucky. Well above normal precipitation was observed over Illinois, Indiana, western Ohio, western Kentucky and spotty above normal amounts in Pennsylvania. The heaviest rains were on the 16th and 17th when 4-5 inches rains occurred along the lower Ohio River.

TEMPERATURE AND PRECIPITATION – DECEMBER 2001

	TEMPERATURE		PRECIPITATION	
STATION	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	37.4	+6.0	2.43	-0.49
Charleston, WV	42.2	+5.2	2.47	-0.92
Columbus, OH	38.4	+6.5	3.01	+0.15
Cincinnati, OH	39.3	+5.8	4.08	+0.93
Louisville, KY	42.6	+5.0	4.47	+0.83
Indianapolis, IN	38.2	+7.3	3.01	-0.33

Evansville, IN	40.5	+5.3	7.16	+3.49
Nashville, TN	44.9	+4.4	3.32	-1.29

STREAMFLOW -- Ohio River monthly average flows for December ranged from a low of 75 percent of normal at Huntington, WV to a high of 193 percent of normal at Paducah, KY. Daily flows ranged from a low of 30 percent of normal at Cincinnati, OH to a high of 291 percent of normal at Paducah, KY.

The following table presents the flow data summary for December at the Ohio River Index Stations:

FLOW DATA – DECEMBER 2001

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	28,500	76	189	32
Huntington, WV	60,100	75	162	34
Cincinnati, OH	82,500	83	169	30
Louisville, KY	119,000	109	215	46
Evansville, IN	184,000	137	223	67
Paducah, KY	475,000	193	291	110

RESERVOIRS -- December started with 4.7% utilization of the total system flood control storage and ended the month at 2.8%. System-wide augmentation storage increased from 87.1% at the beginning of the month to 92.5% by the end of the month. Significant flood storage utilization in excess of 25% occurred at Rough, Monroe and Patoka projects during the month. Rough is in the Green River basin of Kentucky and the other two projects are located in the Wabash River basin of Indiana.

The following table depicts storage change by tributary reservoir subsystem for December:

CHANGE IN STORAGE	(ACRE-FEET)
--------------------------	--------------------

TRIBUTARY-RESERVOIR SUBSYSTEM	
Allegheny-Monongahela-Beaver	+16,900
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-6,400
Twelvepole-Big Sandy-Little Sandy-Scioto	-2,100
Little Miami-Licking-Mill Creek-Great Miami	-41,300
Kentucky-Salt-Green-Wabash	+11,100
Cumberland	+85,800
TOTAL	+64,000

JAMES L. SEALS, P.E.
Chief, Technical Engineering & Construction Div.